DATASHEET - FAZ-Z16/2



| N | Ainiature circui | it breaker (MCB), | 16 A, 2p, characteristic: Z | FAT•N |
|------------------------------------|---------------------------------|--------------------------------|---|---|
| E | 'art no. L Number Norway) | FAZ-Z16/2 278825 1695270 | | Powering Business Worldwid |
| General specifications | | | | |
| Product name | | | Eaton Moeller se | eries xEffect - FAZ MCB |
| Part no. | | | FAZ-Z16/2 | |
| EAN | | | 4015082788254 | |
| Product Length/Depth | | | 80 millimetre | |
| Product height | | | 75.5 millimetre | |
| Product width | | | 36 millimetre | |
| Product weight | | | 0.222 kilogram | |
| Compliances | | | UL CSA09 (with s RoHS conform | supplementary protector only) |
| Certifications | | | CSA (File No. 204 | 451) 1215-30) JL recognized, CSA certified) |
| Product Tradename | | | xEffect - FAZ | |
| Product Type | | | МСВ | |
| Product Sub Type | | | None | |
| Delivery program | | | | |
| Application | | | not as BCPD ndustrial and advanced commercial applications gear for industrial and advanced commercial applications | |
| Number of poles | | | Two-pole | |
| Number of poles (total) | | | 2 | |
| Number of poles (protected) | | | 2 | |
| Tripping characteristic | | | Z | |
| Release characteristic | | | Z | |
| Amperage Rating | | | 16 A | |
| Туре | | | FAZ Miniature circuit | breaker |
| Technical Data - Electrical | | | | |
| Voltage type | | | AC | |
| Voltage rating | | | 240 V AC / 415 V | AC |
| Voltage rating at DC | | | 60 V DC (per pole | a) |
| Voltage rating (UL CSA 13) | | | 480 Y/277 V AC; 9 | 96 V DC |
| Rated operational voltage (Ue) - r | nax | | 400 V | |
| Rated insulation voltage (Ui) | | | 440 V | |
| Rated impulse withstand voltage | (Uimp) | | 4 kV | |
| Frequency rating - min | | | 50 Hz | |
| Frequency rating - max | | | 60 Hz | |
| Rated switching capacity (IEC/EN | l 60947-2) | | 10 kA | |
| Operational switching capacity | | | 7.5 kA | |
| Rated short-circuit breaking capa | acity (EN 60898) at 230 | ٧V | 0 kA | |
| Rated short-circuit breaking capa | acity (EN 60898) at 400 | ٧V | 0 kA | |
| Rated short-circuit breaking capa | acity (IEC 60947-2) at 2 | 230 V | 10 kA | |
| Rated short-circuit breaking capa | acity (IEC 60947-2) at 4 | 100 V | 10 kA | |
| | | | | |

Admissible back-up fuse - max

125 A gL/gG

| Selectivity class | 3 |
|--|--|
| Lifespan, electrical | 10000 operations |
| Overvoltage category | |
| Pollution degree | 2 |
| Direction of incoming supply | As required |
| Technical Data - Mechanical | |
| | |
| Frame | 45 mm |
| Enclosure width | 80 mm |
| Width in number of modular spacings | 2 |
| Built-in depth | 70.5 mm |
| Mounting width per pole | 17.5 mm |
| Mounting width | 17.5 mm |
| Mounting Method | Top-hat rail IEC/EN 60715 |
| Mounting position | As required |
| Degree of protection | IP20 UL/CSA Type: - IP40 (when fitted) IP20 (IEC) |
| Terminals (top and bottom) | Twin-purpose terminals |
| Connectable conductor cross section (solid-core) - min | 1 mm ² |
| Connectable conductor cross section (solid-core) - max | 25 mm ² |
| Connectable conductor cross section (multi-wired) - min | 1 mm ² |
| Connectable conductor cross section (multi-wired) - max | 25 mm ² |
| Terminal capacity of screw terminals for main cable | 10 mm ² (2x) |
| Terminal capacity (control cable) | 25 mm ² (1x) |
| Terminal protection | Finger and hand touch safe, DGUV VS3, EN 50274 |
| Busbar material thickness | 0.8 mm - 2 mm |
| Design verification as per IEC/EN 61439 - technical data | |
| Rated operational current for specified heat dissipation (In) | 16 A |
| Heat dissipation per pole, current-dependent | 0 W |
| Equipment heat dissipation, current-dependent | 7.1 W |
| Static heat dissipation, non-current-dependent | 0 W |
| Heat dissipation capacity | 0 W |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 75 °C |
| Design verification as per IEC/EN 61439 | |
| 10.2.2 Corrosion resistance | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | Meets the product standard's requirements. |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | Meets the product standard's requirements. |
| 10.2.5 Lifting | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | Meets the product standard's requirements. |
| 10.3 Degree of protection of assemblies | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | Is the panel builder's responsibility. |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 10.10 Temperature rise | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| | Is the panel builder's responsibility. The specifications for the switchgear must be |

| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
|-------------------------------------|--|
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| Additional information | |
| Current limiting class | 3 |
| Features | Additional equipment possible |
| Special features | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| Used with | FAZ Miniature circuit breaker |

Technical data ETIM 9.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042) Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01 [AAB905019]) Built-in depth mm 70.5 Release characteristic Ζ Number of poles (total) 2 Number of protected poles 2 Rated current 16 А v Rated voltage 400 440 Rated insulation voltage Ui v Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kΑ 0 Voltage type AC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kΑ 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 10 Frequency Hz 50 - 60 w Power loss 7.1 Current limiting class 3 Flush-mounted installation No Concurrently switching neutral conductor No Over voltage category 3 Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 2 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25 Explosion-proof No